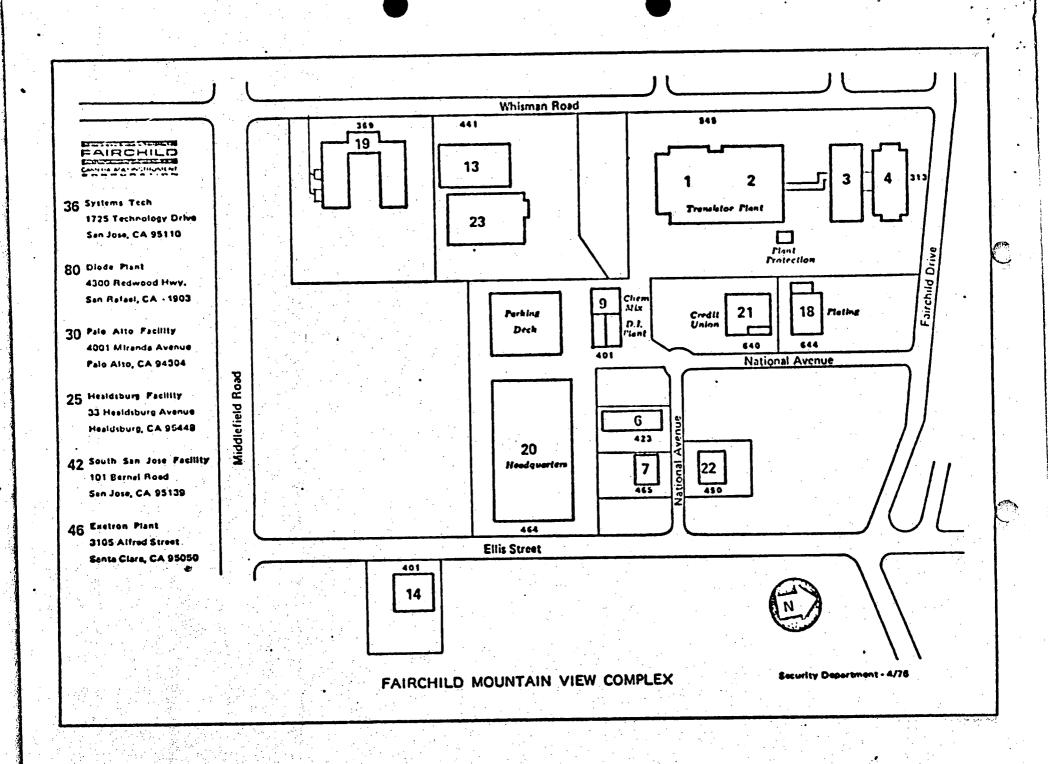
CITY OF MOUNTAIN VIEW

SFUND RECORDS CTI 2807-91946

Application for Industrial Wastes Discharge Permit

Name of Organization		Comers & Tac		No.	005-81-4	
Address 464 E1118	Street, Mt	n. View. Ca	erumen <u>e Corpo</u> 94042	ration	:	
Address of Point of Dis	charge 369 W	hisman Rd. Mi	n. View. Ca	Bldg. #19	- *	in the
Individual Responsible	Name Ci	regary Geary_		-	hone (415)_	962-4773
for industrial waste	Signature L	Herrony Mes	1 y 80			371-3532
Attach Map Showing P	oint of Discharg	e, Sampling Points,	and Waste Treatmen	nt Facility.		,
. Flow Rate: Average	73,600 0	als/day Max.	81,000 gals/day	Peak Ho	urly	_GPM
Submit separate statem	ent:					 :
1. Detailing type of inc	lustry and natur	e of products				
2. Listing chemicals use	ed and approxim	nate concentrations	4			
3. Describing waste trea						
4. Giving characteristic	of exceptional	industrial wastes				
5. Concerning radioacti						
6. Naming organic solve	ints discharged a	and concentration at	t point of discharge		•	
Indicate the point of di	scharge concenti	ration of the followi	ng characteristics ar	nd mass emission	rates where app	licable.
Biochemical oxygen der	mand (B.O.D.) $_{-}$	5 <u>0</u> mg/1	Grease and o		mg/	
Chemical oxygen deman	id (C.O.D.) _			content pH 5.		10 Sec. 10
Total Solids, Average	•	mg/1	Fluoride		5.0 mg/	1
Suspended Solids, Avera Temperature	99	<u>50</u> mg/1	Chlorine dem	and	5.0 mg/	1
remperature .			• •			
	Max. Conc. Allowable	Allowable Mass		Max. Conc.	Allowable M	
	mg/1	Emission Rate kg/day	<i>:</i>	Allowable mg/1	Emission Re kg/day	to
Arsenic	_0.1_	0.01	Formaldehyde	_5.0	_0.5_	
Barium	_5.0_	_0.5_	Lead	-0.5	0.05	
Beryllium Bassa	1.0_	_0.1	Manganese	-1-0-	_0,1	-
Boron Chlorine	<u> </u>	_0.1	Mercury	-0.05-	_0.005	
Cadmium	50.0_ _0.1_	_5.0_	Nickel	-1.0_	_0.1	
Chromium Hexavalent	1.0	-0.01 -0.1	Chloroform	50-0-	_5.0_	
Chromium Total	2.0	-0.2	Phenols Selenium	_1.0_ _2.0_	_0.1	
Cobalt	1.0	-0.1	Silver		_0.2_	
Copper	1.0_	-0.1_	Zine	5.0	_0.5_	
Cresols	_2.0	-0.2				
Cyanides	_1.0	-0.1_			Çeba Viti	
TO BE COMPLETED BY	APPLICANT					
nit to Discharge Industrial		dance with This And	diestica Assessi	Cubican b	455 1 1 4	
n Shelley, Director of Publ	c Works	suries with this App	wicetion Approved	Subject to Specific Co		eneral
ature(\ll_l	11.11					
	- Alle	ω	Date .	2-5-	0	
nit to Discharge Exceptiona Details:	I Industrial Was	te ^P Approved				
Challer Disease - 40 Lt	c Works					
i Sileney, Unector of Plini						
n Shelley, Director of Publi ature				•		



APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT, ITEM C.

1. Type of Industry and Nature of Products

Fairchild Semiconductor processes silicon metal into electronic semiconductor devices.

2. Chemicals used in semiconductor device processing are:

Cases	Liquids	Liquids
Nitrogen Hydrogen Oxygen Argon Hydrogen chloride Chlorine Compressed air Ammonia	Sulfuric acid Nitric acid Hydrofluoric acid Hydrochloric acid Acetic acid Phosphoric acid Ammonium fluoride Ammonium hydroxide Acetone	Methanol Isopropanol Methylene chloride Trichloroethane Detergents Aluminum sulfate Sodium carbonate Sodium hydroxide Freon Glycerin
		Xylene

3. Waste Treatment Pacilities

Acid wastes are not currently generated at this building. Fluoride solutions are captured for Class I disposal.

4. Characteristics of exceptional industrial wastes. None

No radioactive wastes are discharged.

Organic solvents are captured for storage and recycling.

ADDITIONAL INFORMATION REGARDING THE I.W. PERMIT FOR BUILDING 1. 2 & 3

- (1) The LIC relocation to Building 1 will remove production at Building 20, resulting in a transfer of water flow within the Mountain View complex (nct a water flow increase).
- (2) The conversion from 3" to 4" wafers by LIC will result in a 44% increase in production with no increased labor or water usage.
- (3) A BPM group will move from Building 20 to the South San Jose facility in the second quarter of 1980, eliminating the flow from this operation.
- (4) The BPM operations that remain in Mountain View will convert from 3" to 4" wafers, resulting in a 44% production increase with no increased labor or water usage.
- (5) The Transistor group will be moving to the San Rafael facility, resulting in the elimination of flow from this operation.
- (6) A 6 month feasability study will be performed on 300 gpm D.I. Water reclaim and 600 gpm treated effluent reclaim.
- (7) Pending favorable completion of the feasability studies, construction of the above reclaim systems will take an estimated 2 years (depending upon economic climate).
- (8) The projected flow rates from the new system were based on peak water usage at full production rates, actual flow rates will be less.
- (9) The relocation of LIC at Building 1 will not be fully operational until 1-2 years after start-up.
- (10) Actual flow rates can only be measured after the system is installed.

 Loss of water via cooling towers is known to be significant.
- (11) Planning is under way to convert to 5" wafers. This would yield a 63% production increase over todays output without increasing labor or water usage.
- (12) The vast majority of construction projects at FC & I are based on technological advances to increase yields, not new production that requires more labor or water usage.
- (13) Even without the above, the new neutralization pit would not increase our total water discharge but would tend to only balance the discharge from two locations.

CITY OF MOUNTAIN-VIEWS



Industrial Waste Discharge Permit

DATE: February 5, 1980 NO. 005-81-4

NAME OF ORGANIZATION: Fairchild Camera & Instrument Corporation

ADDRESS: 464 National Avenue, Mountain View, Calif. 94043

GENERAL CONDITIONS

- 1. This permit is issued under the ordinances and regulations of the City of Mountain View currently in effect, but all discharges hereunder shall comply with all ordinances and regulations of the City and all other applicable local, state, and federal regulations, whether now in effect or hereafter adopted or amended.
- 2. Any violation of the terms of this Permit or the ordinances or regulations of the City shall be grounds for revocation.
- 3. If any proposed revisions in plant operations are expected to cause significant changes in waste water quality or quantity (25 percent or more, or 25,000 gallons per day) from that given in approved Permit Information, an application for an amended permit must be submitted for approval detailing the nature of the changes.
- 4. In accordance with Section 35.32.8 of the City Code, accidental discharges of industrial wastes shall be reported immediately to the Public Works Department, telephone number 967-7211, Ext. 270, during normal office hours, or to the Fire Department, telephone number 968-4415, on holidays or after normal office hours AND to the Palo Alto Regional Water Quality Control Plant, telephone number 329-2598 so that appropriate countermeasures may be taken.
- 5. This Permit is not transferable without prior written consent of the Director of Public Works. In general, a change of ownership will require a new permit.
- 6. The issuance of this permit does not constitute a warranty that the design capacity of the sewage collection and treatment system is sufficient to accommodate peak sewage flows from all dischargers who may now or hereafter be connected to the system. Pursuant to Sec. 35.32.1(d) the City reserves the right to impose restrictions on sewage discharges where necessary in the judgment of the City to assure the proper functioning in the sewerage system.

SPECIFIC CONDITIONS

369 Whisman Ro	ad
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Building No. 19

3. Your attention is called to the fact that flow rates shown on the permit application exceed per-acre design flows of the sewers serving the above locations. Restrictions or additional charges may be imposed in accordance with Sec. 35.32.1(d) of the City Code should peak sewage flows from the total upstream acreage approach the capacity of these sewers.